Exploring Aeronautics							
2007 Science Grade Level and High School Content Expectations							
Grade 5							
Activity/Lesson	State	Standards					
Fundamentals of			Describe what happens when two forces act on				
Aeronautics (145-176)	MI	1	an object in the same or opposing directions.				
			Describe how changes in the motion of objects				
Fundamentals of			are caused by a non-zero net (unbalanced)				
Aeronautics (145-176)	MI	3	force.				
			Relate the size of change in motion to the				
Fundamentals of			strength of unbalanced forces and the mass of				
Aeronautics (145-176)	MI	4	the object.				
Tools of		SCI.5.S.RS.05.1					
Aeronautics(257-326)	MI	6	Design solutions to problems using technology.				
l			Describe how constant motion is the result of				
How an Airplane Flies	MI	2	balanced (zero net) forces.				
			Generate scientific questions based on				
Science of Flight	MI		observations, investigations, and research.				
		SCI.5.S.RS.05.1					
Science of Flight	MI	6	Design solutions to problems using technology.				
			Describe how science and technology have				
			advanced because of the contributions of many				
Science of Flight	MI	9	people throughout history and across cultures.				
Integrating with			Use metric measurement devices in an				
Aeronautics	MI	SCI.5.S.IP.05.14					
			Describe how science and technology have				
Intro to Aeronautics			advanced because of the contributions of many				
(109-123)	MI	9	people throughout history and across cultures.				
Scientific Method(124-			Generate scientific questions based on				
144)	MI	SCI.5.S.IP.05.11	observations, investigations, and research.				
Scientific Method(124-							
144)	MI	SCI.5.S.IP.05.12	Design and conduct scientific investigations.				
Scientific Method(124-			Evaluate data, claims, and personal knowledge				
144)	MI	SCI.5.S.IA.05.12	through collaborative science discourse.				
Scientific Method(124-		001 - 014 0- 44	Draw conclusions from sets of data from				
144)	MI	SCI.5.S.IA.05.14	multiple trials of a scientific investigation.				
Onion4:6: M-4:1/404			Use multiple sources of information to evaluate				
Scientific Method(124-	NAI.	001.5.0.14.05.45	strengths and weaknesses of claims,				
144)	MI		arguments, or data.				
Scientific Method(124-	NAL		Evaluate the strengths and weaknesses of				
144)	MI	1	claims, arguments, and data.				
		Evaloring Assess	uutioo				
Exploring Aeronautics 2007 Science							
Grade Level and High School Content Expectations							
Michigan Science							
Grade 6							
Activity/Lesson	State	Standards					
ACTIVITY/LESSUII	Jiait	Statiualus					

	I		Danas actuate a significance and the second
Table of		0010000004	Demonstrate scientific concepts through various
Tools of			illustrations, performances, models, exhibits,
Aeronautics(257-326)	MI	5	and activities.
Tools of		SCI.6.S.RS.06.1	
Aeronautics(257-326)	MI	6	Design solutions to problems using technology.
			Demonstrate scientific concepts through various
The Tools of			illustrations, performances, models, exhibits,
Aeronautics	MI	5	and activities.
The Tools of		SCI.6.S.RS.06.1	
Aeronautics	MI	6	Design solutions to problems using technology.
			Draw conclusions from sets of data from
Science of Flight	MI	SCI.6.S.IA.06.14	multiple trials of a scientific investigation.
			Demonstrate scientific concepts through various
			illustrations, performances, models, exhibits,
Science of Flight	MI	5	and activities.
		SCI.6.S.RS.06.1	
Science of Flight	MI	6	Design solutions to problems using technology.
			Describe what science and technology can and
Science of Flight	MI	8	cannot reasonably contribute to society.
		00100505	Describe how science and technology have
			advanced because of the contributions of many
Science of Flight	MI	9	people throughout history and across cultures.
			Describe how science and technology have
Intro to Aeronautics		I	advanced because of the contributions of many
(109-123)	MI	9	people throughout history and across cultures.
Scientific Method(124-			Generate scientific questions based on
144)	MI	SCI.6.S.IP.06.11	observations, investigations, and research.
Scientific Method(124-			
144)	MI	SCI.6.S.IP.06.12	Design and conduct scientific investigations.
Scientific Method(124-			Analyze information from data tables and graphs
144)	MI	SCI.6.S.IA.06.11	to answer scientific questions.
Scientific Method(124-		00100140014	Draw conclusions from sets of data from
144)	MI	SCI.6.S.IA.06.14	multiple trials of a scientific investigation.
			Use multiple sources of information to evaluate
Scientific Method(124-			strengths and weaknesses of claims,
144)	MI		arguments, or data.
Scientific Method(124-		SCI.6.S.RS.06.1	Evaluate the strengths and weaknesses of
144)	MI	1	claims, arguments, and data.
		F1	
		Exploring Aerona	
	One de la caral	2007 Science	
Miahinan Calara	Grade Level a	na High School C	ontent Expectations
Michigan Science			
Grade 7	Otata	Otomala ::-I-	
Activity/Lesson	State	Standards	Damandada asias (C
Table of		001705051	Demonstrate scientific concepts through various
Tools of	N. 4.1		illustrations, performances, models, exhibits,
Aeronautics(257-326)	MI	5	and activities.
Tools of		SCI.7.S.RS.07.1	
Aeronautics(257-326)	MI	6	Design solutions to problems using technology.
		001 7 0 70 5= :	Demonstrate scientific concepts through various
The Tools of			illustrations, performances, models, exhibits,
Aeronautics	MI	5	and activities.

The Tools of		SCI.7.S.RS.07.1	
Aeronautics	MI	6	Design solutions to problems using technology.
			Construct charts and graphs from data and
Science of Flight	MI	SCI.7.S.IP.07.15	observations.
			Communicate and defend findings of
Science of Flight	MI	SCI.7.S.IA.17.13	observations and investigations.
			Draw conclusions from sets of data from
			multiple trials of a scientific investigation to draw
Science of Flight	MI	SCI.7.S.IA.07.14	conclusions.
			Demonstrate scientific concepts through various
		SCI.7.S.RS.07.1	illustrations, performances, models, exhibits,
Science of Flight	MI	5	and activities.
		SCI.7.S.RS.07.1	Describe what science and technology can and
Science of Flight	MI	8	cannot reasonably contribute to society.
			Describe how science and technology have
		SCI.7.S.RS.07.1	advanced because of the contributions of many
Science of Flight	MI	9	people throughout history and across cultures.
			Describe how science and technology have
Integrating with			advanced because of the contributions of many
Aeronautics	MI	9	people throughout history and across cultures.
Scientific Method(124-			Generate scientific questions based on
144)	MI	SCI.7.S.IP.07.11	observations, investigations, and research.
Scientific Method(124-			
144)	MI	SCI.7.S.IP.07.12	Design and conduct scientific investigations.
Scientific Method(124-			
144)	MI	SCI.7.S.IP.07.16	Identify patterns in data.
Scientific Method(124-			Analyze information from data tables and graphs
144)	MI		to answer scientific questions.
Scientific Method(124-		SCI.7.S.RS.07.1	Evaluate the strengths and weaknesses of
144)	MI	1	claims, arguments, and data.
Scientific Method(124-		SCI.7.S.RS.07.1	
144)	MI	6	Design solutions to problems using technology.